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Istanbul, January 9th 1943

Dr. Michael Heidelberger
620 West 128th Street
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Dear Dr. Heidelberger,

Experimental Medicine

on July 20th 1942 I wrote you, asking you the favor of sending me reprints of your papers Journ. of ~~Immunology~~ Vol. 75 p. 35 and 135, whose abstracts I had read in the "Chemical Abstracts". Our bibliographic situation here is worse now than before. As I wrote you, we did not get any journals from the United States for formal reasons. I had ordered on my own costs the Chemical Abstracts. But unfortunately these cannot be forwarded from the United States to neutral countries. Therefore I am not informed at all about the development in our science overseas.

The main purpose of my letter is the following. I have repeated now my earlier work about the gravimetric determination of complement, modifying the method according to your technique. I investigated the precipitation of arsanil-antigens by immune sera and used the large excess of guinea pig serum, recommended by you. I am glad that I found in agreement with your work a regular increase of weight if active guinea pig serum was added. Moreover I determined quantitatively the amount of antigen in the precipitate and arrived at some interesting conclusions about the action of complement. Since the American government wants to encourage the publication of Turkish scientific papers in the United States, I sent the manuscript by the U.S. War Information Office here to the Journal of Immunology, asking the editors to read the proofs in America. I hope you will be so good as to do me this service again.

I have read very attentively your three papers on complement determination. Please allow me the following remarks. - On page 682 of the Journ. of ~~Immunology~~ Experimental Medicine you mention a 5% suspension of red blood corpuscles and state that it contains 830.000-1,500.000 cells per cmm. How is that possible? That would mean that the sheep blood contains more than 10 millions of red cells per cmm. - On page 697 of the same Journal you use Ponders formula for the calculation of the red cells surface. This formula has been misprinted in Ponders original paper. Actually he used a right formula, which furnishes a much larger value, approximately 18 times larger. - Of course your calculations about the surface should be corrected by this factor. - In my own paper I did not touch these points, therefore I am communicating them to you by this letter. I hope to have quoted your own results in a right manner in my paper. Should I have not taken account of some new results, please ascribe it to the impossibility to get the American Journals since July 1942 and the J. of Exp. Med. since Vol. 74.

With the best wishes for 1943 and many thanks for your trouble

Yours very sincerely

